

AGOSHKOV, Aleksandr Kuz'mich, inzhener; KARAMYSHEV, I.A., inzhener,
redaktor; ROSTOVTSOVA, M.P., redaktor; VOLKOV, V.S., tekhnicheskii redaktor.

[Corrosive elements in soils and methods of determining them
in construction planning] Agressivnost' pochv i metody ee
opredeleniia dlia stroitel'nogo proektirovaniia. Moskva,
Gos.izd-vo 19t-ry po stroit. i arkhitekture, 1955. 102 p.
(Corrosion and anticorrosives) (MLRA 8:10)

IMENITOV, Vladimir Rafailovich; AGOSHKOV, M.I., retsenzent; KASSYURA,
K.G., gornyy inzhener, retsenzent; SIMONOVSKIY, N.S., redaktor
PARTSEVSKIY, V.N., redaktor; EVENSON, I.M., tekhnicheskii redaktor.

[Methods of working thick ore deposits.] Sistemy razrabotki
moshchnykh rudnykh mestorozhdenii. Moskva, Gos.nauchno-tekhn.
izd-vo lit-ry po cherno i tsvetnoi metallurgii, 1955. 311 p.
(Mining engineering) (MLA 8:10)

TERPIGOREV, A.M., akademik, redaktor; AGOSHKOV, M.I., redaktor;
BARON, L.I., doktor tekhnicheskikh nauk, redaktor; PROTOD'YA-
KONOV, M.M., doktor tekhnicheskikh nauk, redaktor; FAYREMAN,
Ye.M., doktor tekhnicheskikh nauk, redaktor; TEPLITSKIY, G.A.,
kandidat tekhnicheskikh nauk, redaktor; RATNIKOVA, A.P.,
redaktor; KOROVENKOVA, Z.A., tekhnicheskii redaktor.

[Problems in the disintegration and thrust of rock; on the 25th
anniversary of the death of M.M.Protod'iakonov] Voprosy raz-
rusheniia i davleniia gornykh porod; k 25-letiiu so dnia
smerti professor M.M.Protod'iakonova. Moskva, Ugletekhizdat,
1955. 313 p. (MLRA 3:12)

1. Akademiya nauk SSSR. Institut gornogo dela. 2. Chlen-korres-
pondent AN SSSR (for Agoshkov)
(Earth pressure) (Mining engineering)
(Protod'iakonov, Mikhail Mikhailovich, 1874-1930)

AGOSHKOV, M.I.; TERPOGOSOV, Z.A.

System of mining iron quartzites from the Kursk Magnetic Anomaly
(KMA). Trudy Inst.gor.dela no.2:5-15 '55. (MLRA 9:3)

1. Chlen-korrespondent AN SSSR (for Agoshkov)
(Kursk Province--Mines and mineral resources)

AGOSHKOV, M.I.; MUKHIN, M.Ye., kandidat tekhnicheskikh nauk.

Studying the strength of mine screening machines and selecting an efficient design. Gor.zhur. no.11:8 N '55. (MLRA 9:1)

1.Chlen korrespondent AN SSSR (for Agoehkov).
(Mining engineering) (Screens (Mining))

AGOSHKOV, M.I.; KOVAZHENKOV, A.V., kandidat tekhnicheskikh nauk; BARSUKOV,
F.A., gornyy inzhener.

Result evaluation of ore broken down by blasthole charges. Ger.
zhur. no.12:6-12 D '55. (MLRA 9:4)

1.Chlen-korrespondent AN SSSR.(for Agoshkov)
(Blasting) (Ores--Sampling and estimation)

AGOSHKOV, M.I.

Basic trends in the development of systems and technology for
mining thick deposits of hard ores. Gor.zhur. no.1:3-11 Ja '56.
(MLRA 9:5)

1. Chlen-korrespondent Akademii nauk SSSR.
(Mining engineering)

AGOSHKOV, M.I.; MUKHIN, M.Ye.

The study of ore yield at the screener gallery level and the structural elements of screener hoppers. Trudy Inst.gor.dela 3:55-73 '56. (MLRA 9:8)

1. Chlen-korrespondent AN SSSR (for Agoshkov)
(Ore dressing--Models) (Screens (Mining))

AGOSHKOV, M.I.; BRONNIKOV, D.M., kandidat tekhnicheskikh nauk; KRASAVIN,
G.I., gornyy inzhener.

Testing data on boring rigs having sinking perforators. Gor.zhur.
no.5:17-22 My '56. (MIRA 9:8)

1. Chlen-korrespondent AN SSSR (for Agoshkov); 2. Institut gorno-
go dela AN SSSR.
(Rock drills)

~~AGOSHKOV, M.I.~~ TERPOGOSOV, Z.A., kandidat tekhnicheskikh nauk.

Improving the system of mining iron quartzites in the Kursk magnetic anomaly. Gor.shur.no.11:29-35 N '56. (MIRA 10:1)

1. Chlen-korrespondent Akademii nauk SSSR(for Agoshkov).2. Institut gornogo dela Akademii nauk SSSR.
(Kursk Province--Mining engineering) (Quartzite) (Iron ores)

SKOCHINSKIY , A.A., akademik, red.; TERPIGOROV, A.M., akademik; SHEVYAKOV, L.D., akademik, red.; MEL'NIKOV, N.V., red.; AGOSHKOV, M.I., red.; SPIVAKOVSKIY, A.O., red.; PLAKSIN, I.N., red.; SUDOPLATOV, A.P.; doktor tekhn.nauk; red.; BARON, L.I., doktor tekhn.nauk, red.; PROTOD'YAKONOV, M.M., doktor tekhn.nauk, red.; FAYERMAN, Ye.M., doktor tekhn.nauk, red.; MIKHEYEV, G.F., red.; CHETYRKIN, M.I., red.; IGNAT'YEVA, L.I., red.; BEKKER, O.G., tekhn.red.; ALADOVA, Ye.I., tekhn.red.

[Soviet mine engineering, 1917-1957] Sovetskaya gornaya nauka, 1917-1957. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po ugol'noi promyshlennosti "Ugletekhizdat," 1957. 640 p. (MIRA 11:1)

1. Akademiya nauk SSSR, Institut gornogo dela. 2. Chlen-korrespondent AN SSSR (for Mel'nikov, Agoshkov, Spivakovskiy, Plaksin).
(Mining engineering)

YANELID, I., professor.; AGOSHKOV, M.I., professor [translator]

Equipment and work methods in modern mining enterprises in
Sweden. Gor. zhmr. no.1:12-30 Ja '57. (MLRA 10:4)

1. Stokgol'mskiy Korolevskiy Tekhnologicheskii institut, Shvetsiya
(for Yanelid).
(Sweden--Mining engineering) (Sweden--Mining machinery)

AGOSHKOV, M.I.

Improve lode mining systems. Gor. zhur. no.2:3-6 F '57. (MLBA 10:4)

1. Chlen-korrespondent AN SSSR.
(Mining engineering)

SKOCHINSKIY, A.A.; TERFIGOREV, A.M.; SHEVYAKOV, L.D., SERGEYEV, A.A.;
ZAKHAROV, P.A.; USKOV, S.I.; AGOSHKOV, M.I.; MEL'NIKOV, N.V.;
BRONNIKOV, D.M.; YENIKHEYEV, N.B.; PROTOPOPOV, D.D.; SUDOPLATOV,
A.P.; BARON, L.I.; MAN'KOVSKIY, G.I.; NAZARCHIK, A.F.; TERPOGOSOV,
Z.A.; BARSUKOV, F.A.; POMORTSEV, A.D.; DEMIDYUK, G.P.; MOLCHANOV,
P.V.; MAKSIMOVA, Ye.P., GRIBIN, A.A.; BARONENKOV, A.V.; SINDAROVSKIY,
N.S.; BOGOMOLOV, V.I.; KHODOV, L.V.; MOSKAL'KOV, Ye.F.; GONCHAROV,
T.I.

Aleksandr Vasil'evich Kovazhenkov; obituary. Bezop. truda v prom.
1 no.12:35 D '57. (MIRA 12:3)
(Kovazhenkov, Aleksandr Vasil'evich, 1906-1957)

AGOSHKOV, Mikhail Ivanovich; MOCHALIN, Mikhail Panteleymonovich, kand.
tekhn.nauk; ISLANKINA, T.F., red.; SAVCHENKO, Ye.V., tekhn.red.

[Mechanization of underground ore mining] Mekhanizatsiia
podzemnoi dobychi rud. Moskva, Izd-vo "Znanie," 1958. 44 p.
(Vsesoiuznoe obshchestvo po rasprostraneniuiu politicheskikh i
nauchnykh znani. Ser. 4, no.36) (MIRA 12:7)

1. Chlen-korrespondent AN SSSR (for Agoshkov).
(Mining machinery)

KOVAZHENKOV, Aleksandr Vasil'yevich; BARSUKOV, Fedor Aleksandrovich;
~~AGOSHKOV, M.I.~~, otvetstvennyy red.; NIKOLAYEVA, I.N., red. izd-va;
POLENOVA, T.P., tekhn. red.

[Studying parameters of underground breaking of ore in deep mines]
Issledovanie parametrov podzemnoi otboiki rudy glubokimi skvazhi-
nami. Moskva, Izd-vo Akad. nauk SSSR, 1958. 129 p. (MIRA 11:8)

1. Chlen-korrespondent Akademii nauk SSSR (for Agoshkov).
(Mining engineering)

АГОШКОВ, М. И.
PHASE I BOOK EXPLOITATION 879

• Akademiya nauk SSSR. Institut gornogo dela

Voprosy razrabotki mestorozhdeniy poleznykh iskopayemykh (Problems in the Exploitation of Mineral Ore Deposits) Moscow, Izd-vo AN SSSR, 1958. 251 p. 4,000 copies printed.

Resp. Ed.: Mel'nikov, N.V., Corresponding Member, USSR Academy of Sciences; Ed. of Publishing House: Grigorash, K.I.; Tech. Ed.: Makuni, Ye.V.

PURPOSE: This book is intended for students and instructors of mining engineering vtuzes and for scientific, engineering and technical personnel engaged in the ore-mining and coal-mining industries.

COVERAGE: The book is a collection of 17 articles written by 18 authors under the direction of Professor Mikhail Ivanovich Agoshkov. It deals with the principles of mining engineering, particularly

Card 1/11

Problems in the Exploitation (Cont.) 879

those applied to underground mining, surveys the technology of coal and ore mining, and discusses the most important practical methods of mine exploitation. The book is divided into four parts. Part 1 discusses the general problem of mining, Part 2 underground exploitation of ore deposits, Part 3 underground exploitation of coal deposits, and Part 4 open-cut mining processes. The articles are accompanied by diagrams, tables and bibliographic references.

TABLE OF CONTENTS:

PART I. GENERAL MINING PROBLEMS

Agoshkov, M.I., Corresponding Member of the Academy of Sciences, USSR
and Bronnikov, D.M., Certain Economically Advantageous Factors in Mining 5

The authors discuss the analytical-mathematical method of estimating economically advantageous cost of production and the selection of optimum conditions for given industrial factors. This analytical approach has been advocated for many years by Academician A.A.

Card 2/1

Problems in the Exploitation (Cont.) 879

Skochinskiy. There are 5 figures and 12 Soviet references.

Kovazhenkov, A.V., Candidate of Technical Sciences (Deceased), and Barsukov, F.A., Mining Engineer. Breaking and Coarse-Crushing Rocks by Blasting 23

This is an evaluation of the main factors affecting the type of blastings in ore-crushing processes. Patterns of single and group shooting are discussed and a classification of ore materials is presented. The text is accompanied by 8 diagrams and 9 graphs. There are no references.

Lipson, M.A., Candidate of Technical Sciences. Design of Permanent Pillars (The Use of Graphic Methods in Solving Problems in Rock-pressure Theory 33

The author recommends the replacement of empirical, often erroneous, formulas by graphic-analytical methods based on well-known theories of rock pressure. Such a method was developed by S.S.

Card 3/ 11

Problems in the Exploitation (Cont.) 879

Golushkevich with reference to statically determined masses. A practical case is considered to illustrate the hiatus between empirical formulas and well-developed theories. There are 27 figures, 2 tables, and 19 references of which 13 are Soviet, 4 German, 1 Rumanian, and 1 Hungarian.

PART II. SUBSURFACE EXPLOITATION OF MINERAL DEPOSITS

Agoshkov, M.I., Corresponding Member of the Academy of Sciences, USSR, and Mochalin, M.P., Candidate of Technical Sciences. The Effect of Broken Ore Size on the Rate of Output 73

In mining hard ores the productivity of a mine can be considerably increased by the efficiency of drilling and blasting operations. To reach high production levels the problems of haulage and hoisting must be satisfactorily solved. Scraping time, idling, secondary crushing, the effect of the size of broken rock on the efficiency of transportation, etc. are analytically examined. There are 6 figures and 7 bibliographic references, of which 6 are Soviet

Card 4/11

Problems in the Exploitation (Cont.)

879

and 1 American.

Agoshkov, M.I., Corresponding Member of the Academy of Sciences, USSR; Trumbachev, V.F., Candidate of Technical Sciences; and Melnikov, Ye.A., Mining Engineer. Analysis of Stress Conditions and the Stability of Roofs and Interchamber Pillars in Areas of the Kursk Magnetic Anomaly

87

Nearly vertically dipping, tightly folded and compressed ferruginiferous quartzites are extracted by the chamber-pillar method with permanently remaining pillars. To test the adequacy of selected dimensions for both components an analytical method for extreme equilibria and suitable tests are presented. There are 16 figures, 4 tables, and 6 bibliographic references, of which 4 are Soviet and 2 American.

Spivakovskiy, A.O., Corresponding Member of the Academy of Sciences, USSR, and Smoldyrev, A.Ye., Candidate of Technical Sciences. Stationary and Mobile Pneumatic Flushing Installations for Nonferrous Metal Mines

103

Card 5/11

Problems in the Exploitation (Cont.) 879

The authors describe techniques and machinery used in silting mines to prevent subsidence, and offer suggestions for the further mechanization of this process. The text contains 8 figures. There are no references.

Baron, L.I., Doctor of Technical Sciences, and Fugzan, M.D., Stalin Prize Laureate. A Study of the Relationship Between the Angle of Natural Repose of Broken Ore and Its Size 115

It has been observed that the angle of natural repose of ore, an important factor which affects various mining designs, decreases with an increase in the size of broken ore. The authors discuss recent analytical and numerical data on the subject. There are 5 figures, 4 tables, and 2 Soviet references.

Baron, L.I., Doctor of Technical Sciences, and Voronyuk, A.S., Candidate of Technical Sciences. Method of Determining the Economic Expediency of Utilizing Underground Crushing Machinery 122

Card 6/11

Problems in the Exploitation (Cont.) 879

Subsurface crushing offers the following advantages: 1) better working conditions and increased safety, 2) increased productivity, 3) more proficient mucking and tramping, and 4) more efficient utilization of hauling and hoisting equipment. Various designs are submitted by the authors. There are 4 figures, 12 tables, and 36 references, of which 24 are Soviet, 9 English, 2 German and 1 French.

Bronnikov, D.M., Candidate of Technical Sciences, and Chistov, V.A., Mining Engineer. The Effect of Blasting-hole Deviation on Ore Production 140

The authors propose and describe methods and techniques for increasing ore output through the control of boreholes by means of electric pulse and gyroscopic equipment. There are 14 figures and 5 tables. There are references.

Baron, L.I., Doctor of Technical Sciences, and Voronyuk, A.S., Can-

Card 7/ 11

Problems in the Exploitation (Cont.) 879

didate of Technical Sciences. Approximate Evaluation of the True
Volume of Broken Ore by Its Three Maximum Dimensions 153

The authors provide a practical approach for classifying broken ore of different size and computing voids. There are 4 tables, 1 figure, and 2 Soviet references.

Kovazhenkov, A.V., Candidate of Technical Sciences (Deceased), and
Barsukov, F.A., Mining Engineer. Selecting Crosscut Dimensions in
Mining by Blasting 157

The article describes the various techniques used in crosscutting in hard and very hard rocks. There are 3 figures, 4 tables, and 6 Soviet references.

Baron, L.I., Doctor of Technical Sciences and Fugzan, M.D., Stalin
Prize Laureate. Tests Demonstrating the Effect of the Nonuniformity of Ore Discharge 166

To insure uniformity in ore loading in mining apatite by shrink-

Card 8/ 11

Problems in the Exploitation (Cont.) 879

age and block-carving, a worked out block filled with granulated ore and small wooden cubes (1 cc. in size) was used as a model. The passage of such wooden models provides an idea of the pattern of ore passage. There are 8 figures, 2 tables, and 2 Soviet references.

PART III. SUBSURFACE EXPLOITATION OF COAL DEPOSITS

Novikov, K.P., Candidate of Technical Sciences. Rational Values for Elements in Longwall Methods of Coal Extractions 177

The technical and economic problems in coal production depend on a number of factors such as thickness and dip of seam, timbering, etc. For example, the length of the working face depends on the thickness of the seam. The author gives an analytical estimate of all factors influencing coal mining. There are 9 figures. There are no references.

Baranovskiy, V.I., Candidate of Technical Sciences. Development

Card 9/11

Problems in the Exploitation (Cont.) 879

Openings in Unstable Rocks Subject to Heaving in Moderately Pitching
Coal Seams in the Donbass 197

The author reviews the problem of controlling heaving, which increases with depth, and the flaking and disintegration of roofs. The technical and economic indices of a coal mine, such as labor and transportation, are unfavorable affected by such factors. The problem is how to reduce these factors to a practical minimum. There are 15 figures. There are no references.

PART IV. OPEN-CUT MINING

Krasnikov, A.S., Candidate of Technical Sciences. Selecting the Best
Width for Excavator Operations in Stationary Excavation Systems 217

A theoretical treatment of factors affecting the productivity of stationary excavators and a selection of the best parameters for shovel width and revolving angles are presented by the author. There are 6 figures and 2 tables. There are no references.

Card 10/11

Problems in the Exploitation (Cont.) 879

Potapov, M.G., Candidate of Technical Sciences. Operation of Open-Cut Electric Locomotives Loading Trains Directly from Excavators 231

The author presents a theoretical study of loading diagrams for electric locomotives. These concern the electromechanical characteristics of the motor in relation to the efficiency of operations. There are 4 figures and 2 tables. There are no references.

[Author not given]. Mikhail Ivanovich Agoshkov (Fiftieth Birthday Anniversary) 247

This is a brief biographical sketch of Professor M.I. Agoshkov, in honor of his 50th birthday. Professor Agoshkov, a distinguished mining engineer and a Corresponding Member of the Academy of Sciences, USSR, is the author of more than 50 published works. He has received a number of medals and honorific titles, among them the Order of the Red Banner of Labor and the Badge of Honor.

AVAILABLE: Library of Congress

Card 11/11

MM/sfm
12-18-58

SCV/110-70

AUTHORS: Agoshkov, M.I., Corresponding Member of AS USSR, Bronnikov, D.M., Candidate of Technical Sciences and Krasavin, G.A., Engineer

TITLE: Drilling Units with Sinking Percussion Drills (Burovyie agregaty s pogruzhnymi molotkami)

PERIODICAL: Mekhanizatsiya trudoyemkikh i tyazhelykh rabot, 1958, Nr 2, pp 17-18 (USSR)

ABSTRACT: The drilling of deep bore holes for the breaking of hard ores involves a large expenditure of time and money. To find the most efficient means of drilling the following rigs with sinking pneumatic drills were tested under similar conditions at different mines: BA-100M, constructed by the West Siberian Branch of the AS USSR and Kuznetskiy metallurgicheskii kombinat (the Kuznetsk Metallurgical Trust); BES-2M constructed by the Krivorozhskiy nauchno-issledovatel'skiy gornorudnyy institut (the Krivoy Rog Scientific Research Mining Institute) and produced by the plant "Kommunist"; BMK-2b - constructed by the Kyshtymskiy mekhanicheskiy zavod

Card 1/2

Drilling Units with Sinking Percussion Drills

SOV/118-58-2-6/19

(the Kyshtym Mechanical Plant) and PBA-1 constructed by the Institut gornogo dela AN Kazakhskoy SSR (the Institute of Mining Engineering of the AS of the Kazakhskaya SSR) and Leninogorskiy kombinat (the Leninogorsk Trust). The results of the tests are shown in tables 1 and 2. These tests showed the superiority of the BA-100M drilling units, explained by the relatively low weight of its percussion drill (13 kg), its force of impact (7.5 kg) and the high frequency of impacts (1900 a minute). These tests showed that the drilling speed in one time-unit is directly proportional to the number of impacts (Figure 2 and Table 3). Moreover, as the BA-100M unit at the same time flushes the bore hole with water, it creates better working conditions. Finally all auxiliary operations connected with the operation of this unit took much less time than with other tested drilling units (Figure 3). The authors recommend perfecting and stepping up the production of the BA-100M drilling units. Reduction of the diameter of the drill and of the bit as well as a further increase in the frequency of drill strokes is also recommended. There are 3 tables, 2 graphs and 1 photo.

1. Drilling machines--Operation 2. Drilling machines--Test results

Card 2/2

14-00000, 14-00000

24-58-7-77770

AUTHOR: Solomonov, M.

TITLE: Problems of the Construction and Exploitation of Mining Enterprises. Scientific-Technical Conference at the Institute of Mining, Academy of Sciences USSR (Voprosy stroitel'stva i ekspluatatsii gornykh predpriyatiy. Nauchno-tekhnicheskoye soveshchaniye v Institute gornogo dela Akademii nauk SSSR)

PERIODICAL: Izvestiya Akademii Nauk SSSR, Otdeleniye Tekhnicheskikh Nauk, 1958, Nr 3, p 173 (USSR)

ABSTRACT: On November 20-21, 1957, a conference took place on the problems of the construction and exploitation dealing with the mineral deposits under complicated hydrological and geological engineering conditions. The conference was organized by the Institute of Mining together with the Central Administration of the Scientific-Technical Society; 320 delegates, nearly all representatives of the appropriate large enterprises, were present. The conference was opened by Academician L. D. Shevyakov. At the plenary meeting of the conference the following papers were presented: A. T. Bobryshev on "Hydrological conditions of the Yakovlev deposits of the Belgorod iron ore district of the Kursk Magnetic Anomaly (KMA) and the corresponding scheme of the lowering of the water level and

Card 1/4

2

24-58-3-35/38

Problems of the Construction and Exploitation of Mining Enterprises.
Scientific-Technical Conference at the Institute of Mining, Academy
of Sciences USSR.

draining undertakings"; M. I. Agoshkov on "Methods of opening workings and the systems of exploitation of the rich iron ores of the Belgorod district of the Kursk Magnetic Anomaly"; G. N. Man'kovskiy on "The tasks of scientific research in the field of construction and exploitation of mining enterprises of soaked deposits"; I. V. Popov on "The task of engineering geology in connection with the appraisal of conditions of opening and exploitation workings of deposits"; S. A. Kri-vorog on "Methods of draining of heavily water-soaked coal deposits and ways of their perfection"; H. F. Unkovskaya and M. N. Gusarev on "Mining works under conditions of water - soaked karst"; D. I. Maliovanov on "New equipment in shaft construction by special methods". Several papers were submitted in the conference sections: "On the introduction into practice of blasting timber technique in the Moscow Basin"; "On the experience of sinking main (entry) shafts under the complicated hydrological conditions of the Tula coal deposits"; "Exploitation of main shafts in the frozen quaternary coal deposits of Vorkuta"; "On the influence of soaking upon the development procedure of the polymetallic ores of Zyranskaya deposit";

Card 2/4

2

127-58-7-10/20

AUTHOR: Agoshkov, M.I., Corresponding Member of the AS USSR
Brylov, S.A., Candidate of Technical Sciences, and
Nikanorov, V.I., Mining Engineer

TITLE: Secondary Ore Crushing by a Hydraulic Press (Vtorichnoye
drobleniye rudy gidravlicheskim pressom)

PERIODICAL: Gornyy zhurnal, 1958, Nr 7, pp 55-59 (USSR)

ABSTRACT: The authors describe experiments made by the Institute of
Mining Works of the Geologo-razvedochnyy institut imeni
Ordzhonikidze (The Geological-Prospecting Institute imeni
Ordzhonikidze) on secondary ore crushing with hydraulic presses.
This operation until now was not mechanized. The press was
installed in a mining gallery. It was composed of two hydraulic
cylinders from the GD-300 lifting jack and a high-pressure
oil pump. A buttress composed of girders with forged iron
pieces welded on them, was installed against the wall. Pieces
of rock were placed against the girders and the press. The
experiments showed that secondary crushing by this method
caused less dust, was more rapid and could be regulated by
applying more or less pressure and by using different types
of punches. The method of dropping weights on pieces of rock

Card 1/2

Secondary Ore Crushing by a Hydraulic Press

127-58-7-10/20

to crush them was also tested, and proved to be less efficient. The authors recommend the introduction of the hydraulic press method into the mining industry. There are 3 photos, 2 drawings and 4 tables.

ASSOCIATION: Institut gornogo dela AN SSSR (The Mining Institute of the AS USSR)

Card 2/2

1. Ore crushing 2. Hydraulic presses-Applications

AUTHORS: ~~Agoshkov, M.I.,~~ Corresponding Member of the AS USSR and
Mamsurov, L.A., Mining Engineer SOV-127-58-10-17/29

TITLE: A Mechanization of Stopping at Mansfeld Mines (Mekhanizatsiya ochistnoy vyyemki na rudnikakh Mansfelda)

PERIODICAL: Gornyy zhurnal, 1958, Nr 10, pp 54-60 (USSR)

ABSTRACT: The authors describe the machanization of stoping in the mines of Mansfeld (Soviet zone of Germany). There are 2 photos, 5 sets of diagrams and 6 non-Soviet references.

ASSOCIATION: IGD AN SSSR (IGD AS USSR)

1. Mining industry--Germany 2. Mining engineering

Card 1/1

14(5)
AUTHORS:

Agoshkov, M. I., Corresponding Member, SOV/30-58-12-3/46
AS USSR, Yenikev, N. B., Candidate of Technical Sciences

TITLE:

Mining-Technical Problems in Opening the Kurskaya Magnetic
Anomaly (Gornotekhnicheskiye problemy osvoyeniya Kurskoy
Magnitnoy anomalii).

PERIODICAL:

Vestnik Akademii nauk SSSR, 1958, Nr 12, pp 10-18 (USSR)

ABSTRACT:

The ore deposits in Kursk are situated favorably from a geographical point of view (Fig 1), apart from the fact that there are immense supplies of high quality. The industrial opening proceeds very slowly in consequence of very complicated and unusual mining-geological conditions of the basin. The predominant majority of the rich ore deposits are situated at a great depth under a mass of irrigated rocks. The opening of the deposits, under these conditions, requires enormous investments of capital and the solution of a number of complicated problems concerning the draining as well as the organization of special methods of level mining down to a depth of 900 m and the reinforcement under a heavy pressure. Many of these problems are entirely new both to Soviet and foreign science and technology. The structure of the mass lying over the ore deposit can be seen in figures 2 and 3.

Card 1/3

Mining-Technical Problems in Opening the Kurskaya
Magnetic Anomaly

SOV/30-58-12-3/46

During the next years an extension of the geological and hydrogeological researches with respect to engineering will be necessary. The participation of the following institutions and organizations will be necessary in order to carry out the researches: Institut gornogo dela Akademii nauk SSSR (Mining Institute of the Academy of Sciences USSR), as the co-ordinating main institute, Institut avtomatiki i telemekhaniki (Institute of Automation and Telemechanics) and Institut merzlotovedeniya Akademii nauk SSSR (Institute of Frost Science of the AS USSR), Laboratoriya gidrogeologicheskikh problem im. F. P. Savarenskogo Akademii nauk SSSR (Laboratory of Hydrogeological Problems imeni F. P. Savarenskiy of the AS USSR), Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova (Moscow State University imeni M. V. Lomonosov), Belgorodskaya zheleznorudnaya ekspeditsiya Glavnogo geologicheskogo upravleniya pri Sovete Ministrov RSFSR (Belgorod Iron-Ore Expedition of the Main Geological Administration of the Council of Ministers of the RSFSR), Krivorozhskiy nauchno-issledovatel'skiy gornorudnyy institut (Krivoy Rog Scientific Research Institute of Ore-Rocks) and

Card 2/3

Mining-Technical Problems in Opening the Kurskaya
Magnetic Anomaly

SOV/30-58-12-3/46

many others. More than 14 planning and constructing
organizations and works are to take part in carrying out
the planning and constructing works. There are 3 figures.

Card 3/3

AGOSHKOV, Mikhail Ivanovich; YENIKHEYEV, Nigmatulla Bikmukhametovich;
BOYARSKIY, V.A., red.izd-va

[Kursk Magnetic Anomaly] Kurskaia magnitnaia anomalii.
Moskva, Izd-vo Akad.nauk SSSR, 1959. 38 p. (MIRA 12:5)
(Kursk Magnetic Anomaly)

AGOSHKOV, M.I., otv.red.; GEYMAN, L.M., red.izd-va; MARKOVICH, S.G.,
tekh.red.

[Technology of mining and dressing of minerals] Voprosy
tekhnologii dobyvaniia i obogashcheniia poleznykh izko-
paemykh. Moskva, Izd-vo Akad.nauk SSSR, 1959. 185 p.
(MIRA 12:8)
1. Akademiya nauk SSSR, Institut gornogo dela. 2. Chlen-
korrespondent AN SSSR (for Agoshkov).
(Mining engineering) (Ore dressing)

AGOSHKOV, M.I.; BRONNIKOV, D.M.; KOVAZHENKOV, A.V. [deceased]; NIKANOROV, V.I.; MOCHALIN, M.P.; VORONYUK, A.S.: Prinsipali uchastiye: KRASAVIN, G.A.; GAGULIN, M.V.; BARSUKOV, F.A.. TERPOGOSOV, Z.A., kand. tekhn.nauk, otv.red.; NIKOLAYEVA, I.N., red.izd-va; DOROKHINA, I.N., tekhn.red.

[Investigating the main technological processes of underground mining of thick hard ore deposits] Issledovanie osnovnykh tekhnologicheskikh protsessov pri podzemnoi razrabotke moshchnykh mestorozhdenii krepkikh rud. Moskva, Izd-vo Akad.nauk SSSR, 1959. 359 p. (MIRA 13:2)

1. Chlen-korrespondent AN SSSR (for Agoshkov).
(Mining engineering) (Ore dressing)

SHAPIRO, Izrail' Solomonovich; YANSHIN, A.L., akademik, nauchnyy red.;
AGOSHKOV, M.I., nauchnyy red.; FLAKSIN, I.N., nauchnyy red.;
BARDIN, I.P., akademik, otv.red.; DOLITSKAYA, S.S., red.;
SMIRNOV, Z.K., tekhn.red.

[Iron ores; a bibliography, 1955-1957] Zheleznye rudy; bibliograficheskiy spravochnik, 1955-1957. Otvetstv.red. I.P.Bardin. Moskva, Proizvodstvenno-izdatel'skii kombinat VINITI, 1959.
910 p. (MIRA 12:11)

1. Akademiya nauk SSSR. Institut nauchnoy i tekhnicheskoy informatsii. 2. Chleny-korrespondenty AN SSSR (for Agoshkov, Flaksin).

(Bibliography--Iron ores)

Ngosh Kov, M.I.

14(5)

PHASE I BOOK EXPLOITATION NOV/1944

Академия наук СССР. Институт горного дела

Научные проблемы разработки и разведки месторождений полезных ископаемых (Scientific Problems in Developing and Exploiting Mineral Deposits) Moscow, Izd-vo AN SSSR, 1959. 333 p. 3,000 copies printed. Errata slip inserted.

Resp. Ed.: N.V. Mel'nikov, Corresponding Member, USSR Academy of Sciences; Ed. of Publishing House: E.A. Vasil'yev, Tech. Ed.: P.S. Kashina.

FOREWORD: This book is intended for coal and ore mining engineers.

CONTENTS: The collection of articles reports on the results of scientific studies conducted by members of the Institute of Mining Industries of the AN SSSR on problems of developing and exploiting coal and ore deposits. The book is divided into two parts. Part I discusses the development and exploitation of coal deposits. Part II discusses the development and exploitation of ore deposits. The scientific basis and principles applied in selecting exploitation methods for different types of deposits are discussed. The determination of the basic elements in the natural conditions, the determination of the underground development, and the preparation and exploitation of coal. Part II is devoted to problems in the development and exploitation of ore deposits, the drainage and mining methods used in underground exploitation of deposits in the area of the Kuzak Magnetic Anomaly, the open pit mining method used in exploiting the rich KMA ores, the determination of size of ore, and further ore dressing. The book is dedicated to Academician Lev Dmitriyevich Shervakov, mining engineer. The articles are accompanied by diagrams, tables, and bibliographic references.

TABLE OF CONTENTS:

Scientific Problems (Cont.)

NOV/1944

PART II. PROBLEMS IN THE DEVELOPMENT AND EXPLOITATION OF ORE DEPOSITS

Man'kovskiy, O.I. Problems in Water Drainage and in Special Methods of Ore Mining in Developing the Rich Iro. Ore Deposits of the Belgorodskiy Region	189
Unkovskaya, N.Y. Regional Water Drainage in Kuzak Area	209
Dolgov, O.A. Using the Method of Hydraulic Analogies in Studying Rock Freezing for Shaft Mining Operations	210
Gerasimov, A.V. Study of Stability and Forecasting Loss of Stability of Alignment in Shaft Lining Sets	230
Slavin, B.A. Open-cut Exploitation of Rich KMA (Kuzak Magnetic Anomaly) Ores	244
Arshakov, M.I., and A.P. Niz'movskiy. Economic Advantages in Using Methods of Mining Shale-Coals in Exploiting Lode Deposits	253

Card 5/7

ABSTRACT: Solomonov, M. SOT/180-99-1-27/29
 TITLE: Conference at the Leading Ore-Mining Combine in Tyrny-Auz (Khabardino-Balakhinsk) (Sobremennyye na pervom kombinatе formirovaniya promyshlennosti v Tyrny-Auze (Khabardino-Balakhinsk))
 PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh nauk, Metallurgiya i toplivo, 1979, № 1, p. 123 (USSR)
 ABSTRACT: A conference was convened on 15-18th September 1978 at the Tyrny-Auz Combine by the Institut gorного dela Akademii nauk SSSR (Mining Institute of the Academy of Sciences of the USSR), Gosudarstvennyy nauchno-issledovatskiy komitet Soveta ministrov SSSR (State Scientific and Technical Committee of the Council of Ministers of the USSR), the Khabardino-Balakhinskiy nauchno-tekhnicheskiy i toplivnyy ekonomicheskii sovetskii metallurgii (Scientific and Technical Institute for Non-Ferrous Metallurgy). The following reports were presented: M. F. Yermolenko, GIK (probably a mistake for GIKI (State Scientific and Technical Committee) - Abstractor) of the Council of Ministers of the USSR, "Main Lines for Technical Development in the Underground Mining of Ores of Non-Ferrous and Rare Metals in 1979-1985"; M. I. Akshikh, IOD AN SSSR, "Improvement in the Methods of the Underground Mining of Large Deposits of Hard Ores"; V. G. Dvornikov, "Mining of Large Deposits of the Glimmer-Grate Method of Working Deposits Under Conditions Preserving the Surface from Carving"; A. A. Ponomarev, "Experience in the Working and Safety Precautions of Inflammable Ural Ores"; A. G. Shchepetilnikov, Institut dipyretivnostei (Dipyrretivnost Institute), "Economic Effectiveness of Using Powerful Equipment in Working Large Deposits"; D. P. Bobrov, "Work of the VNIIT Institute on the Production of Modern Boring Equipment"; D. M. Brumskiy (Mining Institute AS USSR), "Comparative Evaluation of Methods of Charge Drilling in Hard Ores"; N. A. Chirpach, "Methods of Shield Propping in Working Large Lushess Beams and the Possibility of Using this Propping System in Working Ores"; "Systems and Methods of Working Large Hard-Ore Deposits in Porphyry Quarries"; V. V. Andin, IOD Ukr SSR (Mining Institute Ukr SSR), "Ways of Combating Dust in Mining Operations". After this the conference heard reports on work at the Korylskiy kombinat (Korylskiy combine), the Khibinskiy rudnik ("Upper" quarry) of the kombinat Sibirskiy rudnik (Siberian combine), the Degtarskiy mestorozhdeniye (Degtarskiy mine), Auskiy kombinat (Tyrny-Auz combine), Salaiskiy rudnik (Salaiskiy quarry) and the Dzhezkazganskoye mestorozhdeniye (Dzhezkazgan deposit). The conference decided on measures for improving mining.

Card 2/3

Card 3/3

18(5),14(5)

AUTHORS:

SOV/127-59-2-4/21

Agoshkov, M.I., Member-Correspondent of the Soviet Academy of Sciences, Yenikayev, N.B., Candidate of Technical Sciences, and Gromyko, A.A., Mining Engineer

TITLE:

Fundamental Problems Concerning the Opening and the Exploitation System of the **Yakovlevskoye Deposits**
(*Osnovnyye voprosy vskrytiya i sistem razrabotki Yakovlevskogo mestorozhdeniya*)

PERIODICAL:

Gornyy zhurnal, 1959, Nr 2, pp 15-23 (USSR)

ABSTRACT:

The article is divided into the following subtitles: introduction; annual output and duration of the mine; organization of the operations and estimated indices; the way of opening and the dimensions of the mining fields; dimensions of the shafts' cross-sections and the ways of opening them; selection of the exploitation system and the height of the floors; exploitation of the **Pokrovskoye Deposits** underground transportation, lift questions, and ven-

Card 1/5

SOV/127-59-2-4/21

Fundamental Problems Concerning the Opening as Well as the Exploitation System of the **Yakovlevskoye Deposit**

tilation of the galleries; angles of displacement of the useless rock. The influx of subsoil water is estimated to be 8,000 or 9,000 cu m/h (water coefficient 4 or 4.5 cu m/t) which is said to be a comparatively small problem in comparison with e.g. the bauxite mines of the Northern Ural where the water coefficient is 30 to 50 cu m/t. The industrial utilization of the mine is said to require extraordinarily complex technical and organizational preparations. The points of disagreement between the 2 project institutes engaged in the work (the Yuzhgiproruda of Khar'kov and the Institute of Mining attached to the Soviet Academy of Sciences) are: 1) the way of opening and the dimensions of the mine fields; 2) dimensions of the shafts' cross-sections; 3) selection of the floor height and of exploitation system; 4) succession of operations at **Yakovlevskoye** and **Pokrovskoye mines**; 5) ~~displacement angles of the useless~~

Card 2/5

SOV/127-59-2-4/21

Fundamental Problems Concerning the Opening as Well as the Exploitation System of the **Yakovlevskoye Deposit**

rock. The overall length of the **Yakovlevskoye deposits** is 40 km. To date, a 10 km long area has been examined thoroughly. Estimated annual output is 15 million tons. The Institute of Mining of the Academy pleads for a simultaneous exploitation of both fields (**Yakovlevskoye, Pokrovskeye**). In such case the annual output would be 17 million tons (12 from **Yakovlevskoye**, 5 from **Pokrovskeye**). . Six floors are planned to be cut. The annual sinking rate of the floors starts at 2.5 m and reaches 27 m at the 6-th floor. The mine will be exhausted in 45 or 50 years. The efficiency of an underground worker is estimated to be 15 tons per 6-hour shift. - The mining area is crossed by the **Vorskla River**. - There will be 4 operation zones on the surface. The Northern Zone (Nr 1) will be 4 km long, the Southern one (Nr 4) 7.5 km, both of them being placed outside of the **Vorskla** River valley. The zone Nr 1 is to be the

Card 3/5

SOV/127-59-2-4/21

Fundamental Problems Concerning the Opening as Well as the Exploitation System of the **Yakovlevskoye Deposit**

first to begin operations. The Academy recommends to construct one central operational and auxiliary set of shafts. The elevators should have 2 cages each, holding 70 persons. The skips will be of the bottom-unloading type and each of them will have a 50 ton capacity. Output - and auxiliary shafts are to have a 6.5 m cross-section clearance. Auxiliary and ventilation shafts of the mine at Pokrov are planned to have a 4 m cross-section clearance. Besides the standard methods used in digging shafts, freezing, cementation and drilling methods are also taken into consideration. Floor heights should not exceed 50 or 60 m. Exploitation work on the first floor, containing about 270 million tons of ore, will take 20 years, while that of the 2nd floor containing about 186 million tons will take 11 years. The **Pokrovskoye deposits** are estimated to be 500 million tons. Trucks used in the mine will have a 25

Card 4/5

SOV/127-53-2-4/21

Fundamental Problems Concerning the Opening as Well as the Exploitation System of the **Yakovlevskoye Deposit**

ton capacity and will be electric. The amount of air needed in the **Yakovlevskoye mine** will be about 630 cu m/sec and 200 cu m/sec in **Pokrovskoye mine**. The depression in the **Yakovlevskoye mine** will be 600 to 650 mm of the water column, 400 to 450 mm in the **Pokrovskoye mine**. Professor S.G. Avershin recommends to take 50 or 55 grades as the most suitable angle for the displacement of useless rock lying above the **Yakovlevskoye ore strata**. The mean angle of displacement must be 45 grades. There are 2 tables and 4 schematic diagrams.

ASSOCIATION: Institut gornogo dela AN SSSR (Institute of Mining, attached to the Soviet Academy of Sciences)

Card 5/5

18

SOV/127-59-4-2/27

AUTHOR: Agoshkov, M.L., Corresponding Member of the AS
USSR, Bud'ko, A.V. and Burtsev, L.I., Candidates
of Technical Sciences.

TITLE: The Improvement of Highly-Productive Methods and
Technology of Mining Large Deposits of Hard Ores.
(Usovershenstvovaniye vysokoproizvoditel'nykh
sistem i tekhnologii razrabotki moshchnykh
mestorozhdeniy krepkikh rud.) Results
of the All-Union Conference on Highly Produc-
tive Methods of Mining. (K itogam Vsesoyuznogo
soveshchaniya po vysokoproizvoditel'nykh siste-
mam razrabotki.)

PERIODICAL: Gornyy zhurnal, 1959, Nr 4, pp 12-24 (USSR)

ABSTRACT: The scientific-technical conference which took
place in Tyzny-Auz in September 1958 was con-
vened to develop measures for the improvement
and introduction of highly productive methods
and technology of mining of large deposits of

Card 1/5

SOV/127-59-4-2/27

The Improvement of Highly-Productive Methods and Technology of Mining Large Deposits of Hard Ores. Results of the All-Union Conference on Highly Productive Methods of Mining.

hard ores. Different mining methods used in the USSR and abroad (USA, Canada, Sweden) as well as the automotive equipment of mines were discussed and compared. The drilling of holes, their diameter and blasting methods were also discussed. The introduction of new powerful technological equipment, such as automotive drilling, loading and unloading of aggregates, implies the modernization of mining methods or their simplification. The introduction of room-and-pillar or of block-caving methods was recommended. A new system of ore-crushing must be developed and improved means of ore-blasting introduced. Care must be taken to avoid excessive pressure in mining chambers

Card 2/5

SOV/127-59-4-2/27

The Improvement of Highly-Productive Methods and Technology of Mining Large Deposits of Hard Ores. ~~400 100~~ Results of the All-Union Conference on Highly Productive Methods of Mining.

and to choose such alternate mining methods which will permit intensive exploitation without causing caving-in or sliding of overhead rocks. The application of various mining methods in the West and in Soviet mines is described. At the Sokol'-naya Mine, ore was extracted by the compulsory level caving-in, later replaced by the sub-level caving-in method. The drilling equipment used was the SB-4 drilling rig with milling cutters and PBA perforators. The compulsory level caving-in method is used in the Salairskiy Mine, the Tekeliyskiy Mine, Mine 7/9 of the Noril'skiy Kombinat (the Noril'sk Combine). Drilling equipment used in these mines is as follows: rigs SB-4, BMK-2b, BMN and perforators KTSM-4 and KS-50. The room-and-pillar method, with massive

Card 3/5

SOV/127-59-4-2/27

The Improvement of Highly-Productive Methods and Technology of Mining Large Deposits of Hard Ores. . . . Results of the All-Union Conference on Highly Productive Methods of Mining.

extraction of ore, is used in the Tyrny-Auz Mine. BMK-2b and BA-100p-1 drilling rigs are used. In the Nikitovskiy Rtutnyy rudnik (the Nikitovskiy Mercury Mine) the level caving-in method is used. In the Ural Chalcopyrite Mines, the sub-level caving-in method is used. It is also used in the Krasnogvardevskiy, Belorechenskiy and imeni III Internatsionala Mines. The room-and-pillar method is used in the Verkhniy Mine of the Sikhali Combine and the method of horizontal layers with filling is used in the Taseyevskiy Mine. This method is presently being perfected by the Tsentral'-nyy nauchno-issledovatel'skiy gorno-razvedochnyy institut (the Central Scientific Research Mine Prospecting Institute (TsNIGRI)). There

Card 4/5

SOV/127-59-4-2/27

The Improvement of Highly-Productive Methods and Technology
of Mining Large Deposits of Hard Ores, Results of
the All-Union Conference on Highly Productive Methods of
Mining.

are 5 sets of diagrams.

ASSOCIATION: Institut gornogo dela AN SSSR. (The Institute of
the Mining Industry of the AS USSR.) Lyubertsy,
Moscow Oblast .

Card 5/5

AGOSHKOV, M.I., prof.; MUKHIN, M.Ye., kand.tekhn.nauk; NAZARCHIK, A.F.,
kand.tekhn.nauk; MAMSUROV, L.A., gornyy inzh.; RAFIYENKO, D.I.,
gornyy inzh.; SERGEYEV, A.A., otv.red.; SLAVOROSOV, A.Kh., red.
izd-va; BOLDYREVA, Z.A., tekhn.red.

[Systems of mining vein deposits] Sistemy razrabotki zhil'nykh
nestorozhdenii. Pod obshchei red. M.I.Agoshkova. Moskva, Gos.
nauchno-tekhn.izd-vo lit-ry po gornomu delu, 1960. 375 p.
(MIRA 14:1)

1. Chlen-korrespondent AN SSSR (for Agoshkov).
(Mining engineering) (Ore deposits)

AGOSHKOV, M.I.; NAZARCHIK, A.F., kand.tekhn.nauk

Reducing the amount of labor for stoping in working vein deposits.
Trudy Inst. gor. dela 5:3-11 '60. (MIRA 14:5)

1. Chlen-korrespondent AN SSSR (for Agoshkov).
(Stoping (Mining))

88606

11 JUL

2411 only

S/127/60/000/005/001/008
B012/B058

AUTHORS: Agoshkov, M. I., Corresponding Member AS USSR, and
Nazarchik, A. F., Candidate of Technical Sciences (Lyubertsy,
Moskovskaya oblast')

TITLE: New Technology of Excavation for the Mining of Vein Deposits

PERIODICAL: Gornyy zhurnal, 1960, No. 5, pp. 14 - 18

TEXT: Since 1951 the tin mines of the Khrustal'ninskiy kombinat Primorskogo sovnarkhoza (Khrustal'nyy Combine of the Primorskiy sovnarkhoz) jointly with the Institut gornogo dela AN SSSR (Mining Institute AS USSR) have been engaged in improving the processes applied for the mining of vein deposits. The following mining systems were elaborated in the course of these activities: mining with ore storing in layers; mining with complete storing and stull timbering; mining with divided mining of the ore and with storing of the debris; downcast excavation with gob flushing and with filling of the mined space. Drilling and blasting operations were also improved. Compared with 1951, the efficiency of a team was trebled at the beginning of

Card 1/5

88606

New Technology of Excavation for the
Mining of Vein Deposits

S/127/60/000/005/001/006
B012/B058

1959. Moreover, experiments were made, using bore holes of smaller diameter (34 to 36 mm) for mining in a narrow working space. 1957 to 1958 new variants of ore drawing from the blocks were elaborated: drawing over ore chutes to the drift ground and subsequent transportation to the lower horizon by means of scrapers; drawing by means of closely spaced drawing chutes. Both variants proved to be suitable. At the same time, attempts were made to organize the work in such a way that one brigade should carry out the biggest number of mining processes, and a maximum interchangeability of laborers should be achieved. After drawing up the plan and fixing the processes, experimental work was conducted in April 1959 in the Khrustal'nyy mine on some blocks of the Volkovskaya vein. The comprehensive brigade under direction of Brigade Leader M. N. Boyko mined 40-m high and 60-m long blocks according to the ore-storing process with continuous drift line along the entire block (Fig. 1). The holes were drilled in the Krivoy Rog with the new telescopic overspeed perforator PT-29 (PT-29) from the zavod "Kommunist" ("Kommunist" Plant). The rate of drilling was 48 to 49 cm/min. The holes were simultaneously drilled to a depth of 1.8 m with 4 to 5 perforators. The holes were arranged in three rows like a chess-

Card 2/5

88606

New Technology of Excavation for the
Mining of Vein Deposits

S/127/60/000/005/001/008
B012/B058

board pattern with a distance of from 0.5 to 0.6 m between rows. The distance between the holes was 0.6 to 0.7 m, as usual. The output increased to 10 to 13 m³ per shift. The rate of drilling increased from 22 to 49.2 cm/min after using core bits of 36 mm diameter (instead of 44 mm). The drift was thus driven at a rate of about 40 m per month, which is unprecedented for the mining of vein deposits in the USSR. In conjunction with the reduced diameter, the use of the new cruciform core bits with interrupted cutting edge from the experimental batch produced by the Kiyevskiy eksperimental'nyy zavod tverdosplavnogo i almaznogo instrumenta (Kiyev Experimental Plant for Hard Alloy and Diamond Tools) was of great influence on the reduction of the bulk of work. The holes in the experimental blocks were blasted with the new explosive Detonit. The mined ore was drawn by means of drawing chutes arranged along the entire block length without interspaces (Fig. 1). The new process was completely adopted by the Tsentral'nyy Mine in December 1959, as well as by the Primorskiy Mine of the kombinat Sikhali (Sikhali Combine) and the Verkhne-Kentsukhinskiy Mine of the kombinat Dal'olovo (Dal'olovo Combine). There are 3 figures, 1 table, and 1 Soviet reference. X

Card 3/3 *Inst. of Mining AS USSR, Leningrad, Moscow & L.*

ABESADZE, B.I.; AGOSHKOV, M.I.; BARAMIDZE, K.M.; DZIDZIGURI, A.A.; FADDEYEV,
B.V.; TSiskarishvili, E.I.

Konstantin Minovich Charkviani; an obituray. Gor. zhur. no.5:76
My '60. (MIRA 14:3)

(Charkviani, Konstantin Minovich, 1880-1960)

KOROBOV, P.I.; KHLEBNIKOV, V.B.; KOLISOV, A.F.; KROCHINSKIY, A.A.; SHEVYAKOV, L.D.; MELNIKOV, V.V.; MOLESKIN, F.F.; MOSEAL'KOV, Ye.F.; POKEOVSKIY, M.A.; KAPLENOV, N.P.; BOGOLYUBOV, B.P.; KUTYKHIN, N.B.; BOYKO, V.Ye.; BRILZA, N.N.; FEDOROV, V.F.; AGOL'KIN, A.I.; KARLOVICH, A.V.; VORONIN, L.N.; IPATOV, P.M.; HAZAROV, P.P.; SLETSKAYA, O.N.; CHERNENKO, N.B.; RABINOVICH, V.I.; BULAVSKIY, V.N.; TROITSKIY, A.V.; GOL'DIN, Ya.A.; DZHAPARIDZE, Ye.A.; ZHURAVLEV, S.P.; KUZNETSOV, K.K.; KALLVICH, N.A.; MARINENKO, M.P.; LANTYNOV, G.P.; KHTATOV, P.P.; PERESAV, M.A.; ROSSKIT, A.F.; MYASHOV, A.A.; SOSNOV, O.O.; VILKOV, V.S.; ZUBANOV, S.N.; SHAFARENKO, I.P.

Nikolai Nikolaevich Patrikeev; an obituary. Gor.zhur. no.6:76 Je '60. (MIRA 14:2)

(Patrikeev, Nikolai Nikolaevich, 1890-1960)

AGGSHKOV, M.I.; SIMAKOV, V.A., gornyy inzh.; TERPOGOSOV, Z.A.,
red.; STEPANYUK, A.A., tekhn. red.

[Criteria and direct methods of determining losses and
depletions in the mining of ore deposits] Kriterii i priamy
metody opredeleniia poter' i razubozhivaniia pri razrabotke
rudnykh mestorozhdenii. Moskva, Vses. in-t nauchn. i tekhn.
informatsii, 1961. 39 p. (MIRA 15:7)

1. Chlen-korrespondent Akademii nauk SSSR (for Agoshkov).
(Mine examination)
(Ores--Sampling and estimation)

MOCHALIN, Mikhail Panteleymonovich; ZVEKOV, Vladimir Afanas'yevich;
AGOSHKOV, M.I., nauchnyy red.; ASTAKHOV, A.V., red. izd-va;
BOLDYREVA, Z.A., tekhn. red.

[Self-propelled equipment in mines] Samokhodnoe oborudovanie na
rudnikakh. Pod nauchn. red. M.I. Agoshkova. Moskva, Gos. nauchno-
tekhn. izd-vo lit-ry po gornomu delu, 1961. 391 p. (MIRA 14:12)

1. Chlen-korrespondent AN SSSR (for Agoshkov).
(Mining machinery)

AGOSHKOV, M.I.; SIMAKOV, V.A., kand. tekhn. nauk; CHUDAKOV, V.V., gornyy inzh.;
PANFILOV, Ye.I., gornyy inzh.

Reducing the working thickness is the principle task in improving
the mining of lode deposits. Gor. zhur. no.6:3-8 Je '64.

(MIRA 17:11)

1. Institut gornogo dela im. A.A. Skochinskogo. 2. Chlen-korrespondent
AN SSSR (for Agoshkov).

IMENITOV, Vladimir Rafailovich. Prinimali uchastiye: KUTUZOV, D.S.;
FAYBISHENKO, D.I.; ZHIGALOV, M.L.; AGOSHKOV, M.I., retsenzent;
MALKIN, I.M., kand. tekhn. nauk, retsenzent; ALBOROV, Z.B.,
kand. tekhn. nauk, retsenzent; BUBLIS, A.N., gorn. inzh., re-
tsenzent; BUNIN, A.I., otv. red.; SIPYAGINA, Z.A., red. izd-va;
SHKLYAR, S.Ya., tekhn. red.

[Highly productive systems of mining thick hard ore deposits]
Vysokoproizvoditel'nye sistemy razrabotki moshchnykh mesto-
rozhdenii krepkikh rud. Moskva, Gos.nauchno-tekhn.izd-vo lit-
ry po gornomu delu, 1961. 417 p. (MIRA 15:2)

1. Chlen-korrespondent Akademii nauk SSSR (for Agoshkov).
(Mining engineering)

MOSIN, M.I.; KATS, G.I.; SHEVYAKOV, L.D., akademik, red.; SHUKHARDIN, S.V., red.; AGOSHKOV, M.I., red.; BORISOV, S.F., red.; BYSTROV, N.M., red.; KISLOV, V.M., red.; KRAKHMALEV, M.K., red.; KUZNETSOV, N.A., red.; MAN'KOVSKIY, G.I., red.; MEL'NIKOV, N.V., red.; POLKOVNIKOV, A.A., red.; POPOV, K.S., red.; CHAYKIN, S.I., laureat Leninskoy premii, red.; **CONCHAROVA, Ye.A.**, tekhn. red.

[Kursk Magnetic Anomaly; history of the discovery study, and commercial development of iron-ore deposits. Collection of documents and materials in two volumes, 1742-1960] Kuraskaja magnitnaia anomalii; istoriia otkrytiia, issledovaniia i promyshlennogo osvoeniia zhelezorudnykh mestorozhdenii. Sbornik dokumentov i materialov v dvukh tomakh, 1742-1960. Belgorod, Belgorodskoe knizhnoe izd-vo. Vol.1. 1742-1926. 1961. 417 p. (MIRA 15:3)

(Kursk Magnetic Anomaly--Iron ores)
(Magnetic prospecting)

AGOSHKOV, M.

Needs of industrial production and the horizons of science.
NTO 3 no.9:7-10 S, '61. (MIRA 14:8)

1. Zamestitel' glavnogo uchenogo sekretarya prezidiuma AN
SSSR, chlen-korrespondent AN SSSR.
(Research, Industrial)

AGOSHKOV, M.I.; RAFIYENKO, D.I., inzh.

Study of the operation of drawing ore in developing veins by
systems involving shrinkage stoping. Nauch. soob. IGD 11:
17-37 '61. (MIRA 16:4)

1. Chlen-korrespondent AN SSSR (for Agoshkov).
(Mining engineering)

AGOSHKOV, M.I.; BUD'KOV, A.V., kand.tekhn.nauk; KRIVENKOV, N.A.,
gornyy inzh.

Evaluation of the basic variations in the system of sublevel
caving and ways of developing it in the Krivoy Rog Basin.
Gor. zhur. no.7:24-30 J1 '61. (MIRA 15:2)

1. Institut gornogo dela im. A.A.Skochinskogo. 2. Chlen-
korrespondent AN SSSR (for Agoshkov).
(Krivoy Rog Basin—Iron mines and mining)

AGOSHKOV, M.I. (Moskva); TREBUKOV, A.L. (Moskva)

Effect of filling on the rated dimensions of interchamber
pillars. Izv. AN. SSSR. Otd. tekhn. nauk. Met. i topl. no.3:
96-103 My-Je '61. (MIRA 14:7)

(Mining engineering)

AGOSHKOV, M.I.; ZABRODIN, I.M.

Fifteenth anniversary of the World Federation of Scientific Workers.
Vest. AN SSSR 31 no.10:109-111 0 '61. (MIRA 14:9)

1. Chlen-korrespondent AN SSSR (for Agoshkov).
(Learned institutions and societies)

AGOSHKOV, Mikhail Ivanovich; BORISOV, Sergey Sergeyevich; BOYARSKIY,
Vladimir Anan'yevich; SIPYAGINA, Z.A., red. izd-va; SABITOV, A.,
tekhn. red.

[Development of ore and placer deposits] Razrabotka rudnykh i
rossypnykh mestorozhdenii. Moskva, Gosgortekhnizdat, 1962.
(MIRA 16:1)

(Ore deposits)

AGOSHKOV, M.I.; TERENT'YEV, V.I., kand.tekhn.nauk; TERPOGOSOV, Z.A.,
kand.tekhn.nauk; KARYAKIN, V.F., gornyy inzh.

Practice of using a flat bottom in a mine of the Kursk Magnetic
Anomaly. Gor. zhur. no.9:28-31 S '62. (MIRA 15:9)

1. Chlen-korrespondent AN SSSR (for Agoshkov).
(Kursk magnetic anomaly--Iron mines and mining)

AGOSHKOV, M.I.; BRONNIKOV, D.M., doktor tekhn. nauk; GAGULIN, M.V.,
kand. tekhn. nauk; ZAMESOV, N.F., inzh.; KRASAVIN, G.A., inzh.

Principles for the methodology of breaking hard ores with
borehole and coyote charges. Nauch. soob. IGD 15:3-14 '62.
(MIRA 17:2)

1. Chlen-korrespondent AN SSSR (for Agoshkov).

MELNIKOV, N. V., AGOSHKOV, M. I., PROTODYAKONOV, M. M., SUDOPLATOV, A. P.,
and ZVYAGIN, P. Z.

"On principles of rational development of mining industry in the USSR"

report to be submitted for the United Nations Conference on the
Application of Science and Technology for the Benefit of the Less
Developed Areas - UNGA, International, 4-20 Feb 63.

AGOSHKOV, M.I.; BUD'KO, A.V.; ARUTYUNOV, K.G.; BOGDANOV, G.I.;
KRIVENKOV, N.A.; Primali uchastiye: ZAMESOV, N.A.;
GAGULIN, M.V.; KRASAVIN, G.A.; VORONYUK, A.S.;
KOSTAN'YAN, A.Ya., red.izd-va; ASRAF'YEVA, G.A., tekhn.
red.; SIMKINA, G.S., tekhn. red.

[Analysis of the development systems of mines in the Krivoy
Rog Basin] Analiz sistem razrabotki rudnikov Krivorozhskogo
basseina. Moskva, Izd-vo AN SSSR, 1963. 184 p.

(MIRA 17:3)

1. Chlen-korrespondent AN SSSR (for Agoshkov).

AGOSHKOV, M.I.; BURTSEV, L.I., kand.tekhn.nauk; TREBUKOV, A.I.

Solidifying hydraulic fill from tailings from ore-dressing plants. Gor.zhur. no.1:41-44 Ja '63. (MIRA 16:1)

1. Institut gornogo dela im. Skochinskogo (for Agoshkov, Burtsev).
2. Nauchno-issledovatel'skiy institut Kurskoy magnitnoy anomalii (for Trebukov).
3. Chlen-korrespondent AN SSSR (for Agoshkov).

(Mine filling)

AGOSHKOV, M.I. (Moskva)

Objectives of scientific research in mining at deep levels of the
Krivoy Rog Basin iron ore deposits. Izv. AN SSSR. Otd. tekhn. nauk.
Met. i gor. delo no.4:3-14 J1-Ag '63. (MIRA 16:10)

AGOSHKOV, M.I.; FUGZAN, M.D., kand. tekhn. nauk

Mechanization of technological processes is the basis for
improving mining systems. Gor. zhur. no.7:3-8 J1 '63.
(MIRA 16:8)

1. Chlen-korrespondent AN SSSR (for Agoshkov).

AGOSHKOV, M.I.; TREBUKOV, A.L., kand. tekhn. nauk

Effect of filling the mined-out area on the bearing capacity
of pillars. Nauch. soob. IGD 18:104-107 '63.

(MIRA 16:11)

1. Chlen-korrespondent AN SSSR (for Agoshkov).

AGOSHKOV, M.I.

Scientific activity of the Academy of Sciences of the U.S.S.R. in
1962. Vest. AN SSSR 33 no.3:11-24, Mr '63. (MIRA 16:3)

1. Chlen-korrespondent AN SSSR, ispolnyayushchiy obyazannosti
glavnogo uchenogo sekretarya Prezidiuma AN SSSR.
(Academy of Sciences of the U.S.S.R.)

AGOSHKOV, M.I.

Project of new statutes for the Academy of Sciences of the U.S.S.R.
Vest. AN SSSR 33 no.6:23-25 Je '63. (MIRA 16:7)

1. Chlen-korrespondent AN SSSR, ispolnyayushchiy obyazannosti
glavnogo uchenogo sekretarya Prezidiuma AN SSSR.
(Academy of Sciences of the U.S.S.R.)

AGOSHKOV, M.I.; CHUDAKOV, V.V., inzh.; PANFILOV, Ye.I., inzh.;
SIMAKOV, V.A., inzh

[Establishing standards for operating expenses depending on the width of the stoping area in mining thin seams; report at the conference on problems of finding efficient methods of mining lode deposits held in Irkutsk, June 4-6, 1963] Normirovanie trudovykh zatrat v zavisimosti ot shiriny ochnistnogo prostranstva pri razrabotke tonkikh zhil; doklad na soveshchanií po voprosam izyskaniia effektivnykh spetsobov razrabotki zhil'nykh mestorozhdenii v g. Irkutske (4-6 iuníia 1963 g.) Moskva, In-t gornogo dela im. A.A.Skochinskogo, 1963. 15 p. (MIRA 18:5)

AGOSHKOV, M.I.

Conference of representatives of the Academies of Sciences of
socialist countries. Vest. AN SSSR 33 no.7:84-86 J1 '63.

(MIRA 16:8)

1. Chlen-korrespondent AN SSSR.

(Europe, Eastern--Research)

POKROVSKIY, G.I.; AGOSHKOV, M.I., red.

[Explosion] Vzryv. Moskva, Nedra, 1964. 165 p.
(MIRA 17:10)

1. Chlen-korrespondent AN SSSR (for Agoshkov).

AGOSHKOV, M.I.; BUD'KO, A.V., kand. tekhn. nauk; KRIVENKOV, N.A., gornyy inzhener

End drawing of ore. Gor.zhur. no.2:38-42 F '64. (MIRA 17:4)

1. Chlen-korrespondent AN SSSR (for Agoshkov). 2. Institut gornogo dela imeni A.A.Skochinskogo (for Krivenkov).

AGOSHKOV, M.I.; VORONYUK, A.S.; ARBACHAKOVA, G.I.

Angles of inclination of main ore chutes. Fir.-takh. probl.
razrab. pol. iskop. no.5:66-69 '65. (MIR 19:1)

1. Institut gornogo dela imeni Skochinskogo, Moskva.

DUBYNIN, Nikolay Grigor'yevich; AGOSHKOV, M.I., nauchn. red.

[Drawing ore in underground mining] Vypusk rudy pri podzemnoi razrabotke. Moskva, Nedra, 1965. 266 p.

(MIRA 18:6)

1. Chlen-korrespondent AN SSSR (for Agoshkov).

AGOSHKOV, M.I.; SPIVAKOVSKIY, A.O.; KONCHENICH, I.P., kand. tekhn. nauk;
TERMOGOSOV, Z.A., kand. tekhn. nauk

Use of vibration techniques in working ore deposits. Gor. zhur.
no.7:53-59 J1 165. (MIRA 18:8)

1. Institut gornogo dela im. A.A.Shchepinetskogo. 2. Chleny-
korrespondenty AN SSSR (for Agosikov, Spivakovskiy).

AGOSHKOV, M.I.; KARPENKO, O.M.

Discussion of principles governing the planning of scientific research. Vest. AN SSSR 35 no.5:81-85 My '65.

(MIRA 18:6)

1. Chlen-korrespondent AN SSSR (for Agoshkov).

AGOSHKOV, Mikhail Ivanovich; BOYARSKIY, V.A.; otv. red.;
VASIL'YEV, B.K., red.

[Design and calculation of the systems and technology
for working ore deposits] Konstruirovaniye i raschety
sistem i tekhnologii razrabotki rudnykh mestorozhdeniy.
Moskva, Izd-vo Nauka, 1965. 218 p. (MIRA 18:12)

1. Chlen-korrespondent AN SSSR (for Agoshkov).

AGOSHKOV, V.M.

Physicochemical studies of the zonal melting of 2-component
systems with eutectics. Geokhimiia no.4:351-359 Ap '63.
(MIRA 16:7)

1. Chair of Geochemistry, Lomonosov State University, Moscow.
(Melting) (Eutectics) (Earth--Surface)

AGOSHKOV, V.M.

Use of zonal fusion in establishing the fields of crystallization
and eutectic composition of multicomponent systems of fused salts.
Dokl. AN SSSR 152 no.1:96-99 S '63. (MIRA 16:9)

1. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova.
Predstavleno akademikom A.P.Vinogradovym.
(Systems (Chemistry)) (Fused salts) (Crystallization)

AGOSTON, Attila, okl.villamosmernok

Stability test of automatic compensators. (To be contd).
Meres automat 9 no.2:37-44 '61.

1. Merestechnikai Kozponti Kutato Laboratorium

AGOSTON, Attila, okl, villamosmernok

Stability test of automatic compensators.II. Meres automat 9
no.3:80-83 '61.

1. Merestechnikai Kozponti Kutato Laboratorium

AGOSTON, Attila; GONDA, Gabor

Intermediate-power transistor battery eliminator. Radiotechnika
11 no.9:270-271 S '61.

AGOSTON, Attila

Use of electron and ion rays in precision mechanics. Elet tud 16
no.46:1470 N '61.

AGOSTON, Attila

Radio measurements. Elet tud 16 no.52:1663 24 D '61.

AGOSTON, Attila; GONDA, Gabor

Mechanics of swinging. Fiz szemle 12 no.4:119-123 Ap '62.

1. Merestechnikai Kozponti Laboratorium (for Agoston).
2. Budapesti Muszaki Egyetem Elmeleti Villamossagtan Tanszeke (for Gonda).

AGOSTON, Attila; GONDA, Gabor

Experiment warming of liquids. Fiz szemle 12 no.5:158-159
My '62.

1. Merestechikai Kozponti Kutato Laboratorium (for Agoston).
2. Budapesti Muszaki Egyetem Elmeleti Villamossagtan
Tanszek (for Gonda).

AGOSTON, A.

"Applying three-way valves properly" by A.C. Casciato (from
Instruments and Control System, 0'62). Reviewed by A. Agoston.
Meres automat 11 no. 4/5:156 '63.